Installation & Operating Instructions

Model(s): Lincoln, Canterbury & Stamford

Conventionally Flued Natural Gas Stoves

PLEASE LEAVE THESE INSTRUCTIONS WITH THE USER

Chimney closure plates are not supplied

Please note gas installations MUST only be carried out by installers who are Gas Safe registered.

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Introduction

THANK YOU FOR PURCHASING A BROSELEY GAS FIRED STOVE

Broseley Fires Ltd, a family run company, was founded as an appliance and design development company in 1975.

Since then we have built up an enviable reputation for the quality, reliability and fuel efficiency of our stoves.

These instructions have been carefully prepared to guide the installer and end-user through the relevant methods and standards for installation of your new Gas Stove.

Correctly installed and operated, your stove will give you many years of warmth and reliability. Therefore, we would suggest that you read the whole instruction manual prior to handing it to your installer. That way you will have a clearer picture of what is involved.

It is required by law that the complete assembly, installation and commissioning of gas-fired stoves is carried out by a professionally qualified and accredited gas fitter listed on the "Gas Safe" register.

THE INSTALLATION MUST BE IN ACCORDANCE WITH THE 'GAS SAFETY INSTALLATION AND USE REGULATIONS' IN CONJUNCTION WITH THESE INSTRUCTIONS AND THE RELEVANT 'BRITISH STANDARDS CODES OF PRACTICE' REQUIREMENTS AND THE RELEVANT 'LOCAL AND NATIONAL BUILDING REGULATIONS'. A COMMISSIONING CERTIFICATE MUST BE LEFT WITH THE END CUSTOMER UPON FINAL COMPLETION AND THE COMMISSIONING FORM COMPLETED IN THE BACK OF THESE INSTRUCTIONS.

Packing List

Burner Box
1 x Burner unit
1 x Stainless reflector Plate
2 x Large coal matrix
4 x Small front coals
14 x Small loose coals
1 x Instruction booklet
4 x Burner fixing and screws
(2 x Self Tapping to hold to the rear of the stove)
2 x Spacers for burner
3 x Self Tapping Screws (for the reflector plate)
4 x Self tapping screws (for spigot connection)
4 x Washers

Stove Box
1 x Cast iron stove body
4 x Legs & bolts
1 x Flue spigot

Canterbury Only
1 x Handle (inc Allen bolt and grub screw)

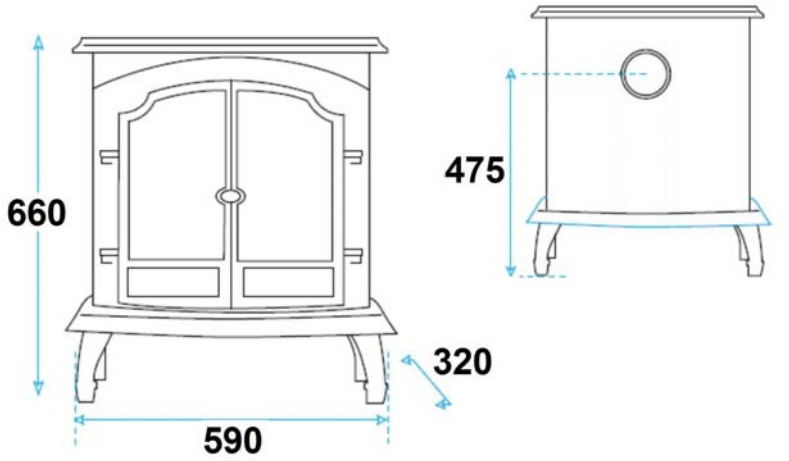
Specification

Heat Input (Gross)	5.5kW
Gas Category	I_{2H}
Supply Pressure	20 mbar
Gas Rate	0.66 m^3/hr
Injector Size	360
Spigot diameter	125mm (5”)
Country of destination	GB, IE
Efficiency	Class 1

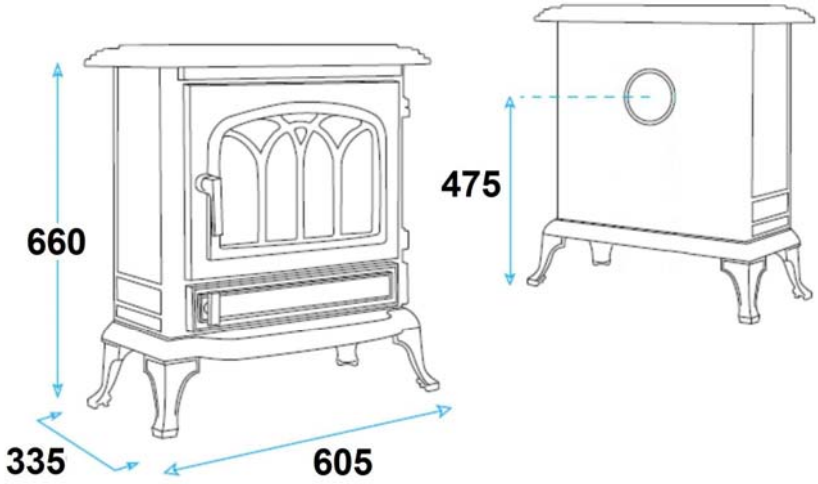
Please note this product is designed to only use natural gas G20.

Dimensions

Lincoln – Weight 64Kg



Canterbury – Weight 66Kg

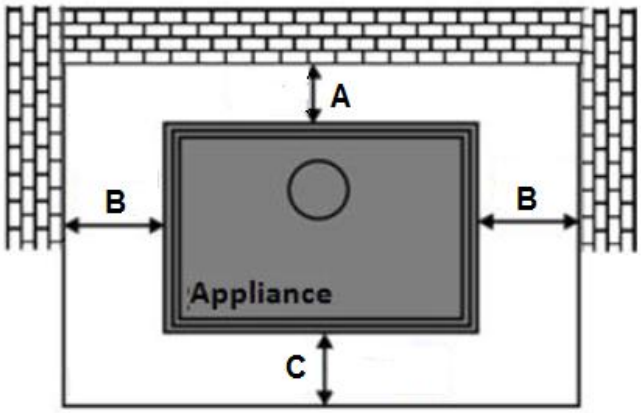


All dimensions are in millimetres.

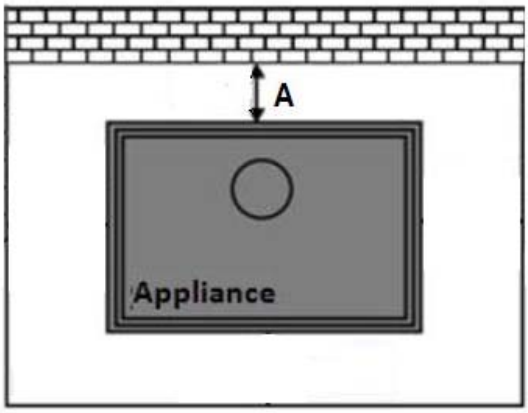
Hearth Requirements

The appliance needs to be located onto a solid non-combustible hearth with a minimum thickness of 12mm. The hearth must be capable of withstanding the weight of the appliance.

To ensure correct combustion the following minimum clearances must be adhered to:



Inglenook Installation



Freestanding Installation

Stove Clearances	A	B	C	Above
Non-Combustible	25mm	75mm	50mm	100mm
Combustible	N/A	610mm	610mm	610mm

Please note these are minimum clearances, whenever possible it is advisable to have as much clearance as possible around the stove for easy access and maintenance.

Please note the gas supply connection to the appliance is in the centre underneath the stove. The connection requires an 8mm-diameter semi-rigid pipe, not more than 1 meter in length.

Chimney Requirements

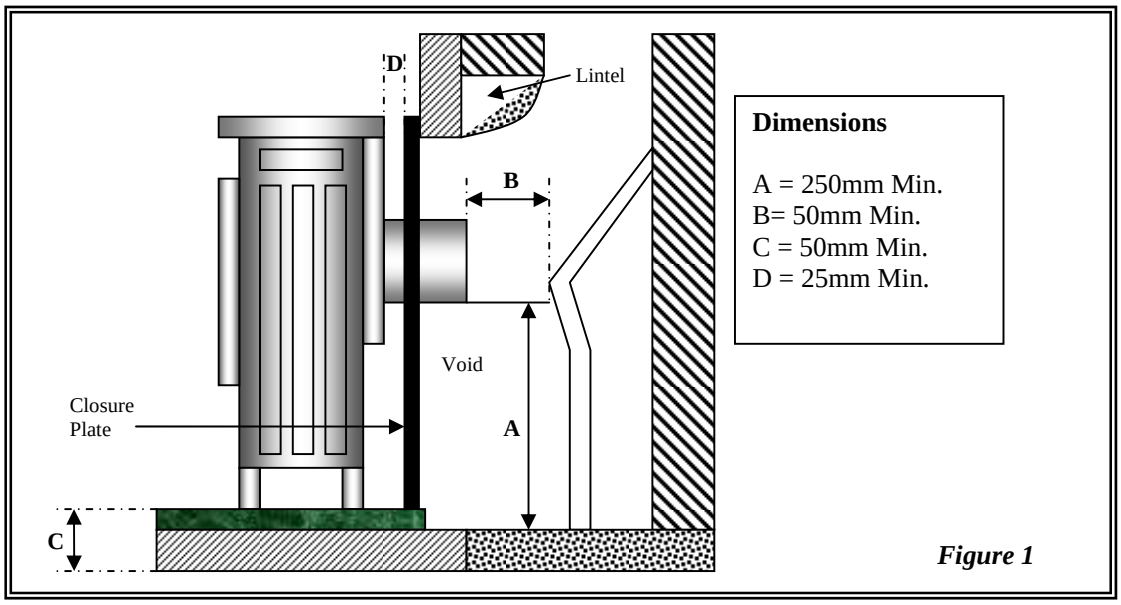


Figure 1

Class 1 Chimney Example

Above is a typical example of an installation with a class 1 flue, please note we do not supply chimney closure plates. The appliance can be installed in any adequate area suitable for solid fuel fires and stoves. It can use a class 1, class 2 and pre-cast flue.

For pre-cast flue installations it is ESSENTIAL that a sealed connection is made into the actual flue system (a void behind the closure plate is not permitted). Please refer to the codes of best practice for further advice on pre-cast flue's. The 150mm pipe supplied can be cut down in length but CANNOT be extended.

Before you install the stove, make sure the chimney flue outlet is correctly positioned to align with the flue outlet on the stove and that the chimney is in good condition. If not, a chimney liner must be installed or a suitable class II gas flue used. A draught is necessary to ensure the products of combustion are fully evacuated. Due to the internal dilution/diversion system in the stove, it is not obligatory to line the chimney but local conditions will apply. The flue will have to be inspected by a Gas Safe registered installer and passed as suitable/sound.

Ideally it is recommended that a minimum height of 610mm from the stove should be established before any significant changes of the direction of the flue. Horizontal or negative gradients should be avoided. The flue must have a minimum height of 3 metres to insure adequate draught.

Prior to installation, the installer should insure that the flue is free from obstruction and any dampers must be fixed in a permanently open position. Ensure the chimney is not closed and that it has been swept and subsequently smoke tested.

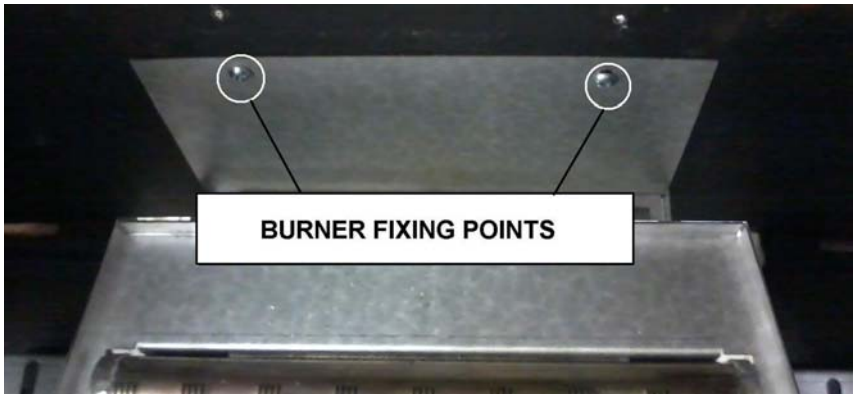
Make sure that rain, birds or any foreign body cannot get into the chimney to cause damage or blockage. This problem can normally be overcome by fitting an approved gas cowl. It is essential for the effective running of your stove that the chimney draws properly to allow the products of combustion to escape.

Assembly - Burner Installation

Ensure all components are present prior to commencing assembly (See Packing List on page 3). You will need a short pozi-drive screwdriver and a set of spanners. On the Lincoln the gas burner is fitted into the stove body through the top of the stove (by removing the lid). On the Canterbury you can fit the burner through the main door (by unwinding the handle anti clockwise).

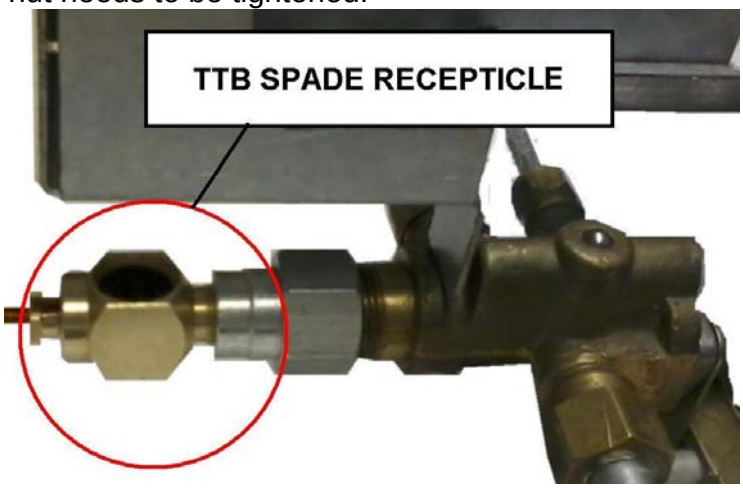
1) Remove the stove body from its packaging and lay it down on its back.
2) Attach the four legs using the supplied bolts.
3) Stand the stove up on its legs. On the Lincoln & Stamford remove the lid by un-doing the four fixing bolts. For the Canterbury simply open the main door.
4) Insert the burner into the stove locating the burner bracket on to the fixing lugs provided. Insert the burner end with the control knob first followed by the other end of the burner locating the burner bracket onto the up stands provided. Please note with the Lincoln and Stamford models 2 spacers are required. These spacers are to be located on top of the lugs and under the burner brackets (2 off additional washers are required on top of the spacers before securing the burner to the fixing lugs). The longer screws are then used. Use the burner fixing screws and 2 off washers to secure the burner in place.

5) Next fix the rear of the burner bracket to the rear of the stove (dilution box) using the self tapping screws provided.



Assembly - Fitting TTB sensor

With the burner installed, thread the wires running from the TTB device (mounted on the rear panel of the stove) down to the 6.3mm spade receptacle connectors on the thermocouple interrupter (Located at the rear of the Gas top assembly), These wires can be installed either way round on the terminals by loosening the thermocouple connection, after the spades have been connected the thermocouple nut needs to be tightened.

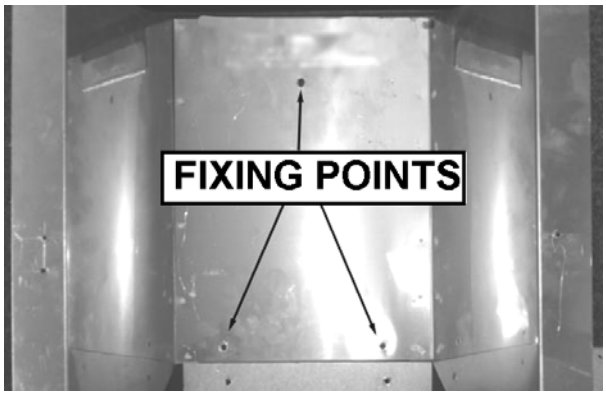


Assembly - Fitting the Reflective Rear Plate

After fixing the burner in position fit the stainless reflector plate to the rear of the stove (dilution box) using the holes and fixing screws supplied. Although the plate can be fitted into the Canterbury through the door, removing the lid will make things easier if you have any difficulties.

Remove the protective film once the plate has been fitted.

To insert the reflective plate into the stove insert the bottom of the plate first, then give the plate a slight bend inwards on both sides and finally bring the top of the plate into place. The reflector plate simply drops down through the top of the stove and is then secured in place using the fixings provided.



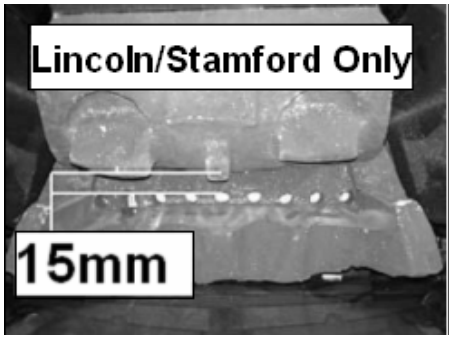
Flue Spigot Connection

Attach the supplied 150mm long flue spigot to the rear of the stove using the four self tapping screws provided.

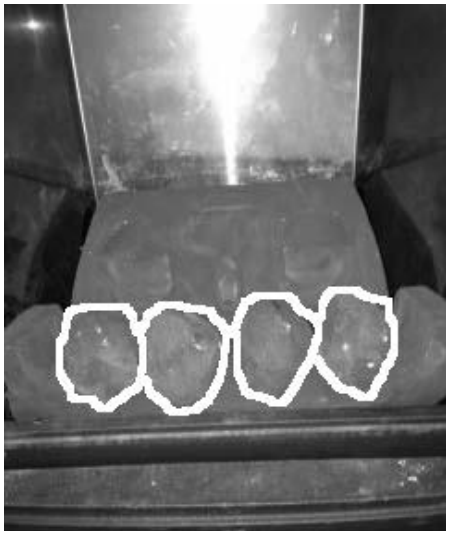
Assembly - Positioning the Coals

Only the ceramics supplied with this appliance should be used. The ceramics should only be laid as described. Before any ceramics are placed in position ensure that the pilot is not obstructed and the burner is operating correctly. Broseley Fires Ltd accepts no responsibility for any injury sustained whilst handling hot ceramics. Ceramics which are found to be placed other than in accordance with these instructions will result in a charge being made following any service callout. Replacement ceramics are available from your dealer.

Stage One
Position the two large coal matrixes on the burner, on the Lincoln & Stamford Model only, ensure that the clearance between the Front Matrix ports and the front of the Rear Matrix is 15mm as measured from the centre of the Rear Matrix.

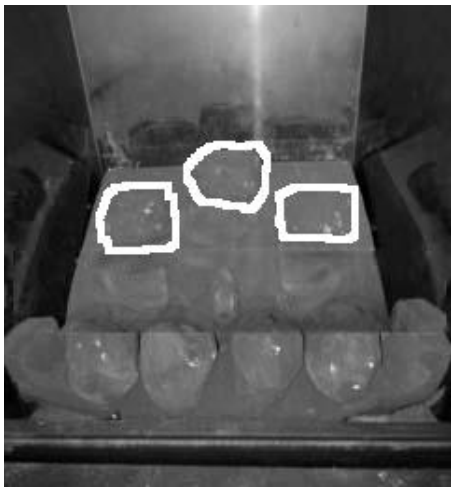


Stage Two
Position the four separately packed coals in the corresponding indentations on the front edge of the coal bed. *These 4 coals are larger and have a flat area on one side which should be position in the four indentations in the coal bed.*

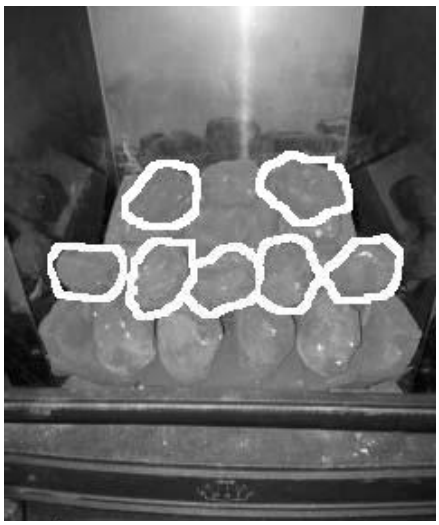


Assembly - Positioning the Coals

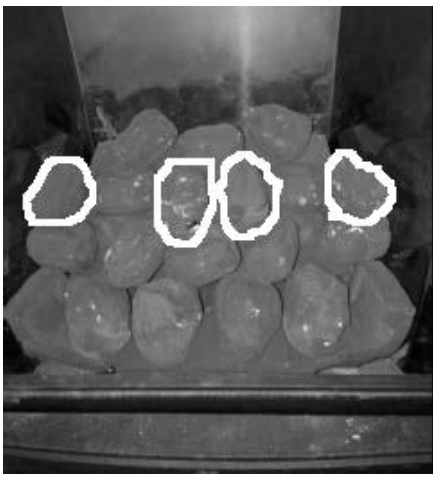
Stage Three
Position a coal on each of the platforms on the centre coal.



Stage Four
Place a coal on the end of either side resting between the rear matrix and the front matrix. Next to this place three more coals across the gap between the front row of coal and the rear matrix in the centre. Place two additional coals on top of the two top coals left and right as shown.



Stage Five
Place the final layers of coals carefully as shown.



Once coal positioning is complete, the lid should be re-attached to the stove.

Assembly – Decorative Log Retainer (Lincoln & Stamford Only)

With the doors of the stove fully open, Using the recesses supplied forward of the glass panel locate the castellation plate taking care not to damage/scratch the glass. Slide the plate towards the bottom of the unit and locate in the recess at the bottom of the glass.

Note: Once installed the castellation should be towards the top of the unit.

Assembly – Door Handle Installation (Canterbury Only)

1. Push the stove door closed, place the washer (supplied) over the threaded rod followed by the hex nut (supplied) tighten the hex nut and washer against the stove door. Tighten to ensure the door is sealed and make sure that the flat on the nut is vertically parallel.

2. Slide the door handle over the hex nut ensuring that the handle is in the downwards position. Using the allen key and grub screw (supplied) secure the handle in position.

Assembly - Gas Connection & Pressure Testing

A minimum 15mm-diameter gas supply pipe must be used to within 1 metre of the installation with the final connection to the stove to be completed with the suitable 8mm semi-rigid gas pipe. The 8mm pipe should be connected to the inlet of the gas valve using the nut and 8mm olive provided. Support the control whilst finally tightening the supply pipe.

The gas supply connection to the appliance is in the centre underneath the stove. The connection requires an 8mm-diameter semi-rigid pipe, not more than 1 meter in length.

Pressure Testing

Always make sure that there is adequate gas pressure and volume to the stove. The relevant pressures are on the ID plate on the gas control knob.

1. **For natural gas, this is 20mbar** measured at the inlet connection to the stove with the appliance in the full rate position.
2. Ensure that the gas pressure to the stove is maintained when it is operating at the same time as other appliances in the building and that a suitable pressure gauge is used i.e. a manometer. **Any service call as a result of incorrect gas pressure will be chargeable.**

Ventilation (GB only)

The gas stove is rated at less than 7kw and therefore does not normally require additional ventilation in the room (BS5871 – part II).

Spillage Testing

A Spillage Test **MUST** be made before the installed fire is left with the customer.

Carry out the test by first closing all doors and windows in the room containing the fire.

Insure that the fire is burning at full rate for a minimum of 10-15 minutes.

Using a lighted smoke match, run it along under the rear edge of the stove. The draught diverter box is situated at the rear of the stove, the entry being in the rear panel for the stove. Observe the smoke being drawn into the dilution box. After 10 minutes repeat the test

If there is an extractor fan in a nearby room the spillage test must be repeated with the fan running and all connecting doors between the fire and fan left open.

If there are still problems, the chimney / flue may require attention. Disconnect the stove and seek expect advice.

Spillage Monitoring System

This appliance is fitted with an atmospheric sensing spillage monitoring system, in the form of an oxygen depletion-sensing pilot. This is designed to shut down the fire within a safe period if there is an excessive build up of products of combustion within the room space. This would usually only occur if the flue path suffered severe blockage and / or ventilation was severely impeded.
THE FOLLOWING ARE IMPORTANANT WARNINGS RELATIVE TO THE SPILLAGE MONITORING SYSTEM

1. The installer must not attempt any adjustments to the spillage monitoring system.
2. There must be no attempt to disable the spillage monitoring system.
3. It is not possible to replace individual parts of the pilot assembly on the appliance – only a complete pilot assembly (including thermocouple) may be fitted in the event of a replacement being necessary. When the spillage monitoring system is replaced, only complete and original manufactures' parts may be fitted.
4. Should the appliance turn itself off, wait for a minimum of 3 minutes before attempting to re-light. In the event of your stove tripping out, consult your installation engineer to have the flue / chimney checked.

Operating the Stove

It is important to read these instructions thoroughly before lighting the stove.

The gas stove operates with a traditional permanent pilot light.

The knob for ignition and power control are located on the lower right hand side of the stove, the indicator in the plate shows the knob position (Marked on knob)

The pilot light is located at the left corner of the coal matrix.

If the Flame Supervision Device Actuating Flame (the pilot light) is extinguished by intention or not, no attempt should be made to re-light **until 3 minutes have elapsed.**

IGNITING THE PILOT AND USING THE HIGH/LOW FUNCTION

1. Depress the control knob fully.
2. Whilst depressed, turn knob sharply 90 degrees anti-clockwise to “pilot” setting. Repeat until pilot light is visibly lit. You should feel some resistance and hear a click. Repeat until the pilot lights.
3. **Keep knob depressed at this point for 15-20 seconds.**
4. Upon releasing, turn the knob Anti-clockwise to select the low flame setting. Turning the control further anti-clockwise you will be able to select the high flame setting.
5. From the high setting you can select low by depressing the control slightly and turning clockwise

EXTINGUISHING THE STOVE FULLY

1. From any heat setting or the permanent pilot, depress control knob and turn clockwise to “OFF” position.

Should the glass door become broken or damaged in any way, turn your stove off and do not attempt to re-light it. Contact your dealer for a replacement to be fitted before relighting the appliance.

PLEASE EXPLAIN TO THE CUSTOMER THESE LIGHTING AND EXTINGUSIHING PROCEDURES AND THAT IT IS NORMAL FOR THE STOVE TO GIVE OFF ODOURS WHILST THE PAINT, SEALANT AND CAST IRON MATURES.

Curing the Paint

It is important to note that upon initial lighting of the stove you will notice a strong odour, this is the paint curing and is completely normal.

Most high temperature paints operate in the same way. They use a resin which dries at room temperature and a silicon resin which cures at high temperatures. When the stove is burned the dry resin burns away and the silicon cures. This transition occurs about 240 degrees C / 475 degrees F.

After the stove burns about three times, the entire surface which gets hot will have cured. The house needs to be fully ventilated during these initial burnings and although the smoke is mostly Carbon Dioxide there are other components of the smoke which make it smell bad and may irritate some people. These problems will go away after the first few burns depending of the duration and surface temperature of each burn. The hotter the stoves gets the more it will cure.

Trouble-shooting

The gas pilot will not ignite or stay lit

- Ensure the gas is turned on at the appliance and the meter / cylinder.
- Hold the pilot gas button for at lest 20 seconds once the pilot is alight to ensure the operation of the safety thermocouple valve.
- Ensure that the connections from the TTB to the rear of the valve assembly are connected. If these are not connected then the burner will not light.
- Ensure that the pilot injector is not obstructed or blocked and it is free from any dust or dirt.
- Ensure that the thermocouple has not been damaged in transit. This is a very delicate device.
- Ensure the pilot flame is the correct size for the type of gas. The flame should be focused on the thermocouple probe, so that it is evenly encircled.
- Any whistling sound you hear is normally caused by dirt obstructing the pilot. This is normally cured by carrying out the cleaning process outlined in the next section entitled Servicing Instructions.
- After altering the pilot, check for any leakage of gas

The main burner does not seem to burn correctly

- Ensure there is adequate gas pressure to the appliance. The pressure can be obtained by unscrewing the pressure test nipple and applying a suitable pressure gauge (I.E. A MANOMETER). Be sure that the gas pressure agrees with the identification label on your stove.
- Ensure adequate volume of gas is being used. Once the fire is burning on maximum turn off all other gas appliances in the house and calculate the fuel being burned from the gas meter
- See that the burner is burning evenly across the whole of the burner surface without any coals in place.

Servicing Instructions

Servicing should be carried out annually by a qualified installation engineer when the stove is cold and the gas supply is turned off at the isolation tap. The following points should be checked.

- Remove the coals and clean any dust and debris from the top of the burner unit. Ideally a vacuum cleaner should be used, but a soft brush will do.
- Check the condition of the coals. Any damaged ones will affect the efficient operation of the stove and should be replaced with new ones available from your stove supplier.
- All gas supply joints should be checked to make sure they are completely sealed and that the gas supply and pressure is to specification.
- The pilot jets are correctly set and clear of obstruction.
- The chimney should also be checked to make sure there are no restrictions or blockages.
- Finally re-lay the coals and re-light the stove as described previously.

Commissioning Form

THIS SECTION MUST BE COMPLETED AND SIGNED BY THE INSTALLATION ENGINEER

PLEASE LEAVE WITH THE CUSTOMER AND THE APPLIANCE.

Size of Governor setting: (i.e.) Natural Gas 20MBAR. LPG 37MBAR)

Length and size of gas supply: _____

Meter pressure Fire only on: _____

All Other appliances on: _____

Burner pressure Fire only on: _____

All Other appliances on: _____

Gas rate - Natural Gas - Time for 1 cubic foot in seconds: _____

Overall length of flue: _____

Is there any spillage: _____Is the draught excessive: _____

Is there any permanent ventilation in the room: _____

Has the room double glazing: _____

Is the aeration of the pilot correct: _____

Does the flame encircle the FFD: _____

Installation Engineers Name: _____

Address _____

_____

_____

_____

Post Code: _____

Telephone: _____ Fax:_____Mobile:_____

Gas Safe Registration No: _____

Signed: _____ Date: _____

Guarantee

Your decorative gas fire, when installed in accordance with the installation instructions and operated in accordance with these instructions should provide many years of safe and efficient operation.

We thank you for purchasing our product and trust it will provide excellent service.

This appliance carries a guarantee of One (1) Year.

We agree to repair free of charge or, at our option, replace the appliance or part thereof, which may prove to be defective within the guarantee period.

The guarantee is void if:

- The appliance is not installed and operated in accordance with our instructions, or
- Repairs or modifications have been carried out by the purchaser or any third party not authorised by us or:
- The appliance has been misused or accidentally damaged, or
- Damage is due to 'fair wear and tear.' or
- The appliance or defective component(s) are not returned to us, prepaid postage.
- The appliance has not been serviced annually by a 'Gas Safe Registered' engineer.

The rights given in this guarantee are limited to the UK mainland and are in addition to any to which you may have a statutory entitlement.

Please retain your purchase receipt. We will need to see this in the event of a claim under warranty.

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